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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,282	03/10/2004	Kil-soo Jung	1793.1230	9379
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STEIN, MCEWEN & BUI, LLP			DANG, HUNG Q	
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SUITE 300			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/796,282	JUNG ET AL.
	Examiner	Art Unit
	HUNG Q. DANG	2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 30 January 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-14 and 16-24 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-14 and 16-24 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 10 March 2004 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____.
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date See *Continuation Sheet*. 5) Notice of Informal Patent Application
6) Other: ____.

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :05/14/2004, 09/30/2004, 07/11/2006, 12/29/2006, 02/05/2007, 08/24/2007.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/30/2008 has been entered.

Response to Arguments

Applicant's arguments filed 01/02/2008 have been fully considered but they are not persuasive.

At page 6, Applicant argues that Kim does not teach that the presentation engine buffers the ENAV application. In response, the Examiner respectfully disagrees because as described clearly in [0045], Kim discloses the markup documents are cached. In other words, they are buffered. The set of the cache memory 3 and the presentation engine 5 shown in Fig. 1 of Kim reference obviously corresponds to the ENAV engine cited in the claims. Thus, Kim discloses the limitation of the "ENAV engine buffers the ENAV applications" cited in claim 1.

At page 7, Applicant argues that "Kim does not disclose anything about buffering the ENAV application before the AV data is reproduced." In response, the Examiner respectfully disagrees. To interpret the claim language in its broadest sense, the Examiner equates the time when the AV data is reproduced to the time when the data

are outputted for display. As Kim describes it in [0045], he or she writes, "...The cache memory 3 caches the markup document read by the reader 1 ... The presentation engine 5 interprets the read markup document and identifies a location of the display window. Then, the AV blender 6 displays the markup document outputted by the presentation engine 5 and the AV data stream outputted by the AV decoder 4 in the display window." According to that passage, the markup documents are buffered or cached before the presentation engine reads the cached data and at the same time identifies a location for the display window. However, the display window must be identified before the AV data are outputted because the AV data are displayed in the display window. Thus, according to that sequence, the markup documents must be cached or buffered before the AV data are outputted. And Kim clearly discloses the limitation of "the ENAV engine buffers the ENAV applications before the AV data is reproduced in the interactive mode."

At pages 7-8, regarding claim 1, Applicant argues that Kim does not disclose the limitation of "a reader which reads the selected ENAV application corresponding to the player language information, based on language information of the ENAV application recorded on a startup file of an information storage medium read by the reproducing apparatus."

In response, the Examiner respectfully disagrees. In [0062], Kim recites, "...if the DVD is inserted into the reproducing apparatus, the presentation engine of the reproducing apparatus retrieves the language information contained in the file VIDEO_TS.IFO and determines whether a language designated as the first default

value of the reproducing apparatus exists in the language information in operation. If the language information contained in the file VIDEO_TS.IFO of the DVD ..." Obviously the VIDEO_TS.IFO is a "startup file recorded on an information storage medium read by the reproducing apparatus" when the storage medium is initially inserted into the reproducing apparatus. It is the startup file because it is read or accessed right after the DVD is inserted into the drive. This file contains the language information of the ENAV application recorded on the storage medium as illustrated in Fig. 2. The reproducing apparatus first reads this file during startup, i.e., when the storage medium is inserted, to determine whether the language designated in the reproducing apparatus (player language information) is supported in the storage medium as illustrated in Fig. 7, step 701. Based on the determination, which using the information in the startup file VIDEO_TS.IFO, if the storage medium (a DVD in Kim) supports the language, the apparatus reads the ENAV application prepared in the language as illustrated in step 703 of Fig. 7 and further described in [0064]. Obviously, Kim discloses "a reader which reads the selected ENAV application corresponding to the player language information, based on language information of the ENAV application recorded on a startup file of an information storage medium read by the reproducing apparatus."

At page 9, Applicant argues that Kim does not disclose, "the ENAV data is selected automatically based on the SPRM."

In response, the Examiner respectfully disagrees. As understood, SPRM stands for "system parameter table". As shown in Fig. 7, step 701 involves checking if the language designated in the reproducing apparatus is supported by the DVD. If the

answer is “yes” the ENAV application for that language is automatically selected as shown in step 703 using the language mapping table shown in Fig. 5. However, the language mapping table is a system parameter table because its entries represent various modes that the system is to run on. For that reason, Kim obviously discloses “the ENAV data is selected automatically based on the SPRM.”

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3, 5-6, 9-14, and 16-20 are rejected under 35 U.S.C. 102(a) as being anticipated by Kim et al. (US 2003/0012558).

Regarding claim 1, Kim et al. disclose a reproducing apparatus comprising: an audio visual (AV) reproducing engine which decodes AV data ([0011]; [0012]; [0026]; [0042]); and an enhanced audio visual (ENAV) engine ([0043]), which includes player language information (“received language information” in [0024]; [0027]; [0044]) selecting one among a plurality of ENAV applications (“application programs” and “markup documents” in [0043]), each of which includes substantially similar contents and is made with a different language from the other ENAV applications ([0017]; [0047]), and interprets and executes the selected ENAV application with reference to the player language information in order to reproduce the AV data in an interactive mode ([0021]; [0022]; [0027]; [0064]); and a reader which reads the selected ENAV

application corresponding to the player language information, based on language information of the ENAV application recorded on a startup file of an information storage medium read by the reproducing apparatus ([0062]; [0064]; Fig. 7; also see “Response to Arguments” above); wherein the ENAV engine buffers the ENAV application before the AV data is reproduced in the interactive mode ([0045]; also see “Response to Arguments” above).

Regarding claim 2, Kim et al. also disclose the player language information is stored as a system parameter (SPRM) ([0044]).

Regarding claim 3, Kim et al. also disclose wherein the ENAV engine selects the one ENAV application with reference to the player language information ([0021]; [0022]; [0027]; [0064]) and the language information indicating a language of contents contained in the ENAV applications ([0025]; [0064]), the language information recorded in the startup file to be first read when the interactive mode is selected (Fig. 5; [0059]).

Regarding claim 5, Kim et al. also disclose the information storage medium stores the language information (Fig. 5; [0059]) and the plurality of ENAV applications ([0050]; [0064]; Fig. 2), each of which includes the substantially similar contents and is made with the different language from the other ENAV applications ([0017]; [0047]), and the ENAV engine compares the language information with the player language information and selects one among the plurality of ENAV applications ([0021]; [0024]; [0025]).

Regarding claim 6, Kim et al. also disclose the ENAV engine compares the language information with the player language information ([0021]; [0024]; [0025]) stored in a system parameter table stored in the reproducing apparatus (Fig. 5).

Regarding claim 9, Kim et al. also disclose the language information comprises elements that each link a loading information file included in corresponding one of the ENAV applications (“Language – Directory Information” table in Fig. 5), and the ENAV engine parses the language information ([0021]; [0024]; [0025]).

Regarding claim 10, Kim et al. also disclose the element comprises an condition element storing a selection criterion to select one among the ENAV applications based on the ENAV engine parsing the language information (“Language – Directory Information” table in Fig. 5 with the selection criterion is a match of the player language information and a language code itself in [0021], [0024], and [0025]).

Regarding claim 11, the language information comprises a “name property and “value” property in a condition element that stores a condition selecting a linked loading information file included in the element linking the loading information file (“name” property being the “character code”, and “value” property being either “KR”, “JP”, or “EN-US” in Fig. 5; the condition is a match of the player language information and a language code itself in [0021], [0024], and [0025]; linked loading information file is the selected value, which is either “\DVD_ENAV\KOR\A.HTM”, “\DVD_ENAV\JP\A.HTM”, or “\DVD_ENAV\ENG\A.HTM” in “Language – Directory Information” table in Fig. 5).

Regarding claim 12, Kim et al. also disclose the language information is recorded using a “name” property and a “value” property in the element linking the loading

information file (“name” property being the “character code”, and “value” property being either “KR”, “JP”, or “EN-US” in “Language – Directory Information” table of Fig. 5).

Regarding claim 13, Kim et al. also disclose the ENAV engine parses language information recorded in a language code with two characters according to an ISO 639 standard ([0021]; [0024]; [0025]; “Character Code” in “Language – Directory Information” table in Fig. 5; [0056]).

Regarding claim 14, Kim et al. disclose an enhanced audio visual reproducing apparatus, comprising: a reader which reads audio visual (AV) data and interactive data from an optical disk ([0026]; [0045]; [0064]); a memory including a system parameter table (SPRM) which stores DVD video system parameters including player language information ([0062]; Fig. 5); an AV reproducer which reproduces the AV data read from the optical disk ([0011]; [0012]; [0026]; [0042]); and an enhanced audio visual (ENAV) engine which selects the interactive data corresponding to the AV data when the optical disc is reproduced in an interactive mode based on the player language information ([0021]; [0022]; [0027]; [0062]; [0064]; Fig. 2; also see “Response to Arguments” above); and which buffers the selected interactive data before the AV data is reproduced in the interactive mode ([0045]; also see “Response to Arguments” above).

Regarding claim 16, Kim et al. also disclose the AV reproducer and the ENAV engine interface through an Application Program Interface (API) ([0043]).

Regarding claim 17, Kim et al. also disclose when the optical disk is reproduced in the interactive mode the ENAV engine reads a startup file from the optical disk and

selects corresponding interactive data from the optical disk based on the startup file ([0058]; [0062]; [0063]; [0064]).

Regarding claim 18, Kim et al. also disclose the ENAV engine parses language information from the startup file ([0058] ; [0062]) and compares the parsed language information with the player language information ([0021]; [0022]; [0024]; [0025]) thereby selecting a corresponding loading file indicating interactive data files to be buffered ([0027]; [0045]; [0064]).

Regarding claim 19, Kim et al. also disclose the interactive data comprises a plurality of enhanced audio-visual (ENAV) data in a plurality of languages, respectively ([0047]; [0050]).

Regarding claim 20, Kim et al. also disclose the ENAV data is selected automatically based on the SPRM ([0020]; [0021]; [0022]; [0024]; [0026]; [0062]; [0064]; also see "Response to Arguments" above)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 7-8, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. (US 2003/0012558) as applied to claims 1-3, 5-6, 9-14, and 16-20 above, and further in view of Lamkin et al. (US Patent 7,178,106).

Regarding claim 4, see the teachings of Kim et al. as discussed in claim 1 above. Kim et al. further disclose wherein the ENAV engine selects the ENAV application with reference to a system parameter ([0021]; [0022]; [0027]; [0064]) and the language information indicating a language of contents contained in the ENAV applications ([0021]; [0024]; [0025]), the language information recorded in the startup file to be first read when the interactive mode is selected (Fig. 2; [0059]; also see "Response to Arguments" above). Kim et al. also disclose the reproducing apparatus to work according to a DVD-Video standard ([0049]).

However, Kim et al. do not disclose the system parameter SPRM 0 set according to a DVD-Video standard.

Lamkin et al. disclose the system parameter SPRM 0 set according to a DVD-Video standard (column 55, entry 0: "Menu Description Language Code (M_LCD or AMGM_LCD)" of first table).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the system parameter SPRM 0 set according to a DVD-Video standard as disclosed by Lamkin et al. to be the layer language information in the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

Regarding claim 7, see the teachings of Kim et al. as discussed in claim 5 above. Further, Kim et al. also disclose the ENAV engine compares the language information with a system parameter ([0021]; [0024]; [0025]). However, Kim et al. do not disclose a

system parameter SPRM 0 set according to a DVD-Video standard in the reproducing apparatus.

Lamkin et al. disclose Lamkin et al. disclose the system parameter SPRM 0 set according to a DVD-Video standard (column 55, entry 0: "Menu Description Language Code (M_LCD or AMGM_LCD)" of first table).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the system parameter SPRM 0 set according to a DVD-Video standard as disclosed by Lamkin et al. to be the layer language information in the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

Regarding claim 8, see the teachings of Kim et al. as discussed in claim 5 above. Further, Kim et al. also disclose the ENAV engine parses language information recorded using a "name" property ad a "value" property ("name" property being the "character code", and "value" property being either "KR", "JP", or "EN-US" in Fig. 5) in an element that stores a condition selecting a linked loading information file ("Language – Directory Information" table in Fig. 5), included in an element that links a loading information file included in a corresponding one of the ENAV applications ("Language – Directory Information" table in Fig. 5), and compares the language information with a system parameter in the reproducing apparatus ([0021]; [0024]; [0025]).

However, Kim et al. do not disclose the system parameter SPRM 0 set according to a DVD-Video standard.

Lamkin et al. disclose the system parameter SPRM 0 set according to a DVD-Video standard (column 55, entry 0: "Menu Description Language Code (M_LCD or AMGM_LCD)" of first table).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the system parameter SPRM 0 set according to a DVD-Video standard as disclosed by Lamkin et al. to be the layer language information in the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

Regarding claim 21, see the teachings of Kim et al. as discussed in claim 20 above. However, Kim et al. do not disclose an SPRM 0 table entry.

Lamkin et al. disclose the SPRM 0 table entry set according to a DVD-Video standard (column 55, entry 0: "Menu Description Language Code (M_LCD or AMGM_LCD)" of first table).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the SPRM 0 table entry set according to a DVD-Video standard as disclosed by Lamkin et al. to be the layer language information in the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

Regarding claim 22, see the teachings of Kim et al. as discussed in claim 20 above. However, Kim et al. do not disclose an SPRM 16 table entry.

Lamkin et al. disclose the SPRM 0 table entry set according to a DVD-Video standard (column 55, entry 16: "Initial Language Code (INI_LCD) for AST" of first table).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the SPRM 16 table entry set according to a DVD-Video standard as disclosed by Lamkin et al. to be the layer language information in the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

Regarding claim 23, see the teachings of Kim et al. as discussed in claim 20 above. However, Kim et al. do not disclose an SPRM 18 table entry.

Lamkin et al. disclose the SPRM 18 table entry set according to a DVD-Video standard (column 55, entry 18: "INI_LCD for SPST" of first table).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the SPRM 18 table entry set according to a DVD-Video standard as disclosed by Lamkin et al. to be the layer language information in the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. (US 2003/0012558) as applied to claims 1-3, 5-6, 9-14, and 16-20 above, and further in view of Horiguchi et al. (US Patent 6,370,322) and Winter et al. (US 2004/0076405).

Regarding claim 24, see the teachings of Kim et al. as discussed in claim 20 above. However, Kim et al. do not disclose an SPRM 21 table entry.

Horiguchi et al. disclose the SPRM 21 table entry set according to a DVD-Video standard (column 9, lines 10-12, Fig. 14).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the SPRM 21 table entry set according to a DVD-Video standard as disclosed by Horiguchi et al. into the reproducing apparatus disclosed by Kim et al. to make the apparatus compatible with DVD-Video standard, which is the existing standard.

However, the proposed combination of Kim et al. and Horiguchi et al. does not disclose the SPRM 21 table entry to store a language code based upon which the ENAV data is selected (Kim et al, [0020]; [0021]; [0022]; [0024]; [0026]; [0062]; [0064]). Instead, the entry is reserved (Horiguchi et al., Fig. 14; column 9, lines 10-12).

Winter et al. disclose using a reserved area to store a language code ([0070]).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the storing a language code in the reserved area disclosed by Winter et al. into the apparatus disclosed by Kim et al. and Horiguchi et al. to store a language code in a reserved area like SPRM 21 table entry to expand the capability of the apparatus. The incorporated feature would enhance the user interface because it provides the users with more options for ENAV data selection.

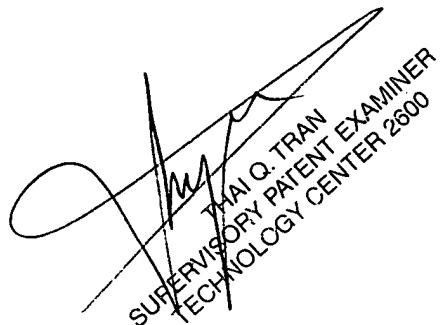
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG Q. DANG whose telephone number is (571)270-1116. The examiner can normally be reached on M-Th:7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hung Q Dang/
Examiner, Art Unit 2621



A handwritten signature in black ink, appearing to read "HUNG Q. DANG", is overlaid on a stylized, slanted rectangular frame. The text within the frame reads "SUPERVISORY THAI Q. TRAN", "PATENT EXAMINER", and "TECHNOLOGY CENTER 2600".